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Programming Fundamentals
(LAB)

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BS : CS

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Q1
Ans

```
#include <conio.h>
#include <iostream.h>
void main ()
{
    int A, B, C,
    float S, Area;
    cout << "Enter the value for A";
    cin >> A;
    cout << "Enter the value for B";
    cin >> B;
    cout << "Enter the value for C";
    cin >> C;
    S = (A+B+C) / 2;
    Area = sqrt(S(S-A)(S-B)(S-C));
    cout << "The value of Area is" << Area;
    getch();
}
```

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Q2
Ans

```

#include <iostream.h>
#include <conio.h>
void main()
{
  int no, i;
  float marks [10], per, total = 0;
  clrscr();
  cout << "Enter number of subject.";
  cin >> no;
  cout << "Enter marks of " << no << "
    subjects";
  for (i = 0; i < no; i++)
  {
    cin >> marks [i];
  }
  for (i = 0; i < no; i++)
  {
    total = total + marks [i];
  }
  per = total / no;
  cout << "percentage: " << per;
  if (per > 60)
  {
    cout << "1st division";
  }
  else, if (per <= 60 && per >= 50)
  {
    cout << "2nd division";
  }
}

```

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```
else if (per <= 49 && per >= 40)
{
    cout << "3rd division";
}
else cout << "You are fail";
getch ();
}
```

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Q3 Part (a)

Ans (a)

```
#include <iostream>
#include <conio.h>
#include <stdlib.h>
using namespace std;

int main() {
    // Declare variables
    int f, i = 0;
    f = 5;
    cout << "Simple C++ Program: Convert
feet to inches\n";
    // Converting into inches
    i = f * 12;
    // Print total inches : " << i;
    getch();
    return (0);
}
```

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Q: 3 Part (b)

Ans: (b)

```

#include <iostream.h>
#include <conio.h>
void main()
{
  clrscr();
  int y, f, i;
  f = 5 feet;
  y = i / 432;
  i = i % 432;
  f = i / 12;
  i = i % 12;
  cout << "Yard = " << y << "\n Feet = " << f << "\n Inches = " << i;
  getch();
}

```

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Q4
Ans:

```
#include <conio.h>
#include <iostream.h>
void main()
{
    int a=2;
    int b=4;
    int c=6;
    int d=8;
    int e=10;
    int f;
    f = a+b+c+d+e;
    cout << "The series sum is"
    << f;
    getch();
}
```

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Q:5

Ans

```
#include <iostream>
using namespace std;
int main()
{
    /* Program By Ghanendra
    Yadav visit http://www.programmingwithbasics.com/
    float Gross payment, basic, da, hra,
    da 1, hra 1, Tax, Net pay;
    cout << "Enter basic salary:";
    cin >> basic;
    cout << "Enter DA:";
    cin >> da 1;
    cout << "Enter HRA:";
    cin >> hra 1;
    da = (da 1 * basic) / 100;
    hra = (hra 1 * basic) / 100;
    Gross payment = basic + da + hra;
    cout << "In Gross Salary:" << Gross
    payment << endl;
    Tax = Gross payment * 10;
    100
    cout << "In Tax";
    net pay = Gross payment - Tax;
    cout << "In Net pay";
    return (0);
}
```